Russian Journal of General Chemistry 1998 vol.68 N8, pages 1246-1248

Enthalpies of Sublimation, Solution, and Solvation of N-Arylmaleimides

Kiselev V., Kashaeva E., Konovalov A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The enthalpies of sublimation of a series of substituted N-arylmaleimides [H, p-CH3, p-Br, p-CH3O, m-NO2, p-NO2, and p-N(CH3)2] and the enthalpies of their solution in chloroform, dimethylformamide, dioxane, acetonitrile, and carbon tetrachloride at 298 K were determined calorimetrically. The enthalpies of solvation decrease in the above series of solvents. Hydrogen bonding of imides in chloroform contributes much to the enthalpy of solvation; this contribution decreases on passing to arylmaleimides with electron-withdrawing substituents.